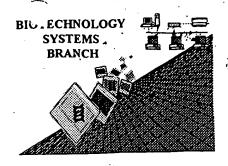
## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/852,238
Source:	OIPE
Date Processed by STIC:	08/17/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: <a href="mailto:patin21help@uspto.gov">patin21help@uspto.gov</a> or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: <a href="mailto:patin3help@uspto.gov">patin3help@uspto.gov</a> or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## **Checker Version 3.0**

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

	- 10 × 7 220
RROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/857, 238
TTN: NEW RULES CASES	S: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOF
1 Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6Patentin 2.0 "bug"	A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
,	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10 Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or  "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

BEST AVAILABLE COPY

AMC/MH - Biotechnology Systems Branch - 08/21/2001

DATE: 08/17/2001

TIME: 11:40:03

```
Input Set : A:\51320-AB.txt
                      Output Set: N:\CRF3\08162001\I852238.raw
      3 <110> APPLICANT: Graham P. Allaway et al.
      5 <120> TITLE OF INVENTION: USES OF A CHEMOKINE RECEPTOR FOR INHIBITING HIV-1 INFECTION
      7 <130> FILE REFERENCE: 2048/51320-AB/JPW/SHS
      9 <140> CURRENT APPLICATION NUMBER: 09/852,238
C--> 10 <141> CURRENT FILING DATE: 2001-05-09
                                                                     Does Not Comply
     12 <160> NUMBER OF SEQ ID NOS: 30
                                                                Corrected Diskette Needed
     14 <170> SOFTWARE: PatentIn version 3.0
     16 <210> SEQ ID NO: 1
     17 <211> LENGTH: 38
     18 <212> TYPE: DNA
C--> 19 <213> ORGANISM: artificial
W--> 21 <220> FEATURE:
W--> 21 <223> OTHER INFORMATION:
     21 <400> SEQUENCE: 1
                                                                                  38
     22 caaggetact teeetgattg geagaactae acaecagg
     25 <210> SEQ ID NO: 2
     26 <211> LENGTH: 25
                                        When field 213 H artificial or unknown, descriptions are required in fields 220 through 223
C--> 28 <213> ORGANISM: artificial (140160)
W--> 30 <220> FEATURE
W--> 30 <220> FEATURE:
W--> 30 <223> OTHER INFORMATION:
     30 <400> SEQUENCE: 2
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     34 <210> SEQ ID NO: 3
     35 <211> LENGTH: 23
     36 <212> TYPE: DNA
C--> 37 <213> ORGANISM: artificial
W--> 39 <220> FEATURE:
W--> 39 <223> OTHER INFORMATION:
     39 <400> SEQUENCE: 3
                                                                                  23
     40 gggactttcc gctggggact ttc
     43 <210> SEQ ID NO: 4
     44 <211> LENGTH: 33
     45 <212> TYPE: DNA
                                                                 BEST AVAILABLE COPY
C--> 46 <213> ORGANISM: artificial
W--> 48 <220> FEATURE:
W--> 48 <223> OTHER INFORMATION:
     48 <400> SEQUENCE: 4
                                                                                  33
     49 cctgttcggg cgccactgct agagattttc cac
     52 <210> SEQ ID NO: 5
     53 <211> LENGTH: 31
     54 <212> TYPE: PRT
     55 <213> ORGANISM: human
     57 <400> SEQUENCE: 5
     59 Met Asp Tyr Gln Val Ser Ser Pro Ile Tyr Asp Ile Asn Tyr Tyr Thr
     62 Ser Glu Pro Cys Gln Lys Ile Asn Val Lys Gln Ile Ala Ala Arg
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/852,238

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

DATE: 08/17/2001

```
PATENT APPLICATION: US/09/852,238
                                                              TIME: 11:40:03
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                     Output Set: N:\CRF3\08162001\1852238.raw
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                                         25
                                                              30
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     65 <210> SEQ ID NO: 6
     66 <211> LENGTH: 15
     67 <212> TYPE: PRT
     68 <213> ORGANISM: human
     70 <400> SEQUENCE: 6
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                                             10
     73 1
     75 <210> SEQ ID NO: 7
     76 <211> LENGTH: 32
     77 <212> TYPE: PRT
     78 <213> ORGANISM: human
     80 <400> SEQUENCE: 7
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     85 Tyr Ser Gln Tyr Gln Phe Trp Lys Asn Phe Gln Thr Leu Lys Ile Val
                    20
     88 <210> SEQ ID NO: 8
     89 <211> LENGTH: 17
     90 <212> TYPE: PRT
     91 <213> ORGANISM: human
     93 <400> SEQUENCE: 8
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     96 1
     98 Gln
     101 <210> SEQ ID NO: 9
     102 <211> LENGTH: 36
     103 <212> TYPE: DNA
C--> 104 <213> ORGANISM: artificial
W--> 106 <220> FEATURE:
W--> 106 <223> OTHER INFORMATION:
     106 <400> SEQUENCE: 9
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     107 aagcttggag aaccagcggt taccatggag gggatc
     110 <210> SEQ ID NO: 10
     111 <211> LENGTH: 30
     112 <212> TYPE: DNA
C--> 113 <213> ORGANISM: artificial
W--> 115 <220> FEATURE:
W--> 115 <223> OTHER INFORMATION:
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     119 <210> SEQ ID NO: 11
     120 <211> LENGTH: 41
     121 <212> TYPE: DNA
C--> 122 <213> ORGANISM: artificial
W--> 124 <220> FEATURE:
W--> 124 <223> OTHER INFORMATION:
     124 <400> SEQUENCE: 11
                                                                                 41
     125 ctcgagcatc tgtgttagct ggagtgaaaa cttgaagact c
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RAW SEQUENCE LISTING

RAW SEQUENCE LISTING DATE: 08/17/2001 PATENT APPLICATION: US/09/852,238 TIME: 11:40:03

Input Set : A:\51320-AB.txt
Output Set: N:\CRF3\08162001\1852238.raw

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		<220> FEATURE:	
M>		<223> OTHER INFORMATION:	
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		<211> LENGTH: 32	
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••		<220> FEATURE:	
W>		<223> OTHER INFORMATION:	
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		<210> SEQ ID NO: 14	
		<211> LENGTH: 30 < 212> TYPE: DNA	
		<pre>&lt;212&gt; TIPE: DNA </pre> <213> ORGANISM: artificial	
		<pre>&lt;2137 ORGANISM: altilitial </pre>	
		<pre>&lt;220&gt; FEATURE:  &lt;223&gt; OTHER INFORMATION:</pre>	
M'>		<pre>&lt;400&gt; SEQUENCE: 14</pre>	
		gtctgagtct gagtcaagct tcagagagaa	30
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		<211> LENGTH: 32	
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C>		<213> ORGANISM: artificial	
_		<220> FEATURE:	
W>	160	<223> OTHER INFORMATION:	
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	166	<212> TYPE: DNA	
C>	167	<213> ORGANISM: artificial	
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M>	169	<223> OTHER INFORMATION:	
,		<400> SEQUENCE: 16	
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		<211> LENGTH: 32	
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		<220> FEATURE:	
M>		<223> OTHER INFORMATION:	
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	TQ2	<210> SEQ ID NO: 18	

RAW SEQUENCE LISTING DATE: 08/17/2001 PATENT APPLICATION: US/09/852,238 TIME: 11:40:03

Input Set : A:\51320-AB.txt

Output Set: N:\CRF3\08162001\1852238.raw

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W>	187 <223> OTHER INFORMATION: 187 <400> SEQUENCE: 18		
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	196 <400> SEQUENCE: 19		
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M>	214 <400> SEQUENCE: 21		
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C>	221 <213> ORGANISM: artificial		
W>	223 <220> FEATURE:		
W>	223 <223> OTHER INFORMATION:	•	
	223 <400> SEQUENCE: 22	•	
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	228 <211> LENGTH: 33		
	229 <212> TYPE: DNA		
	230 <213> ORGANISM: artificial		
	232 <220> FEATURE:		
W>	232 <223> OTHER INFORMATION:		
	232 <400> SEQUENCE: 23 233 ctcgagcaga cctaaaacac aatagaga	agt too	33
	236 <210> SEQ ID NO: 24	·	J <b>J</b>
	237 <211> LENGTH: 30		
	DO, TELLY DEHOLIT, DO		

RAW SEQUENCE LISTING

DATE: 08/17/2001 TIME: 11:40:03

PATENT APPLICATION: US/09/852,238

Input Set : A:\51320-AB.txt

Output Set: N:\CRF3\08162001\1852238.raw

- 238 <212> TYPE: DNA
- C--> 239 <213> ORGANISM: artificial
- W--> 241 <220> FEATURE:
- W--> 241 <223> OTHER INFORMATION:
  - 241 <400> SEQUENCE: 24
  - 242 gtctgagtct gagtcctcga gcagacctaa 30
  - 245 <210> SEQ ID NO: 25
  - 246 <211> LENGTH: 34
  - 247 <212> TYPE: DNA
- C--> 248 <213> ORGANISM: artificial
- W--> 250 <220> FEATURE:
- W--> 250 <223> OTHER INFORMATION:
  - 250 <400> SEQUENCE: 25
  - 251 aagettetgt agagttaaaa aatgaaeeee aegg 34
  - 254 <210> SEQ ID NO: 26
  - 255 <211> LENGTH: 30
  - 256 <212> TYPE: DNA
- C--> 257 <213> ORGANISM: artificial
- W--> 259 <220> FEATURE:
- W--> 259 <223> OTHER INFORMATION:
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  - 260 gtctgagtct gagtcaagct tctgtagagt 30
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  - 264 <211> LENGTH: 34
  - 265 <212> TYPE: DNA
- C--> 266 <213> ORGANISM: artificial
- W--> 268 <220> FEATURE:
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    - 269 ctcgagccat ttcatttttc tacaggacag catc 34
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- C--> 275 <213> ORGANISM: artificial
- W--> 277 <220> FEATURE:
- W--> 277 <223> OTHER INFORMATION:
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- C--> 284 <213> ORGANISM: artificial
- W--> 286 <220> FEATURE:
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  - 292 <212> TYPE: DNA

39

## VERIFICATION SUMMARY

DATE: 08/17/2001 TIME: 11:40:04

PATENT APPLICATION: US/09/852,238

Input Set : A:\51320-AB.txt

Output Set: N:\CRF3\08162001\I852238.raw

- L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
- L:19 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
- L:21 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:21 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:28 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
- L:30 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:30 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:37 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
- L:39 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:39 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:46 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
- L:48 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:48 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:104 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
- L:106 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:106 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:113 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
- L:115 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:115 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:122 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
- L:124 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:124 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:131 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
- L:133 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:133 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:140 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
- L:142 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:142 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:149 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
- L:151 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:151 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:158 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
- L:160 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:160 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:167 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
- L:169 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:169 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:176 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17
- L:178 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:178 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:185 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
- L:187 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:187 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:194 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19
- L:196 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:196 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:203 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20
- L:205 M:258 W: Mandatory Feature missing, <220> FEATURE:

**VERIFICATION SUMMARY** 

DATE: 08/17/2001 PATENT APPLICATION: US/09/852,238 TIME: 11:40:04

Input Set : A:\51320-AB.txt

Output Set: N:\CRF3\08162001\1852238.raw

L:205 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:212 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21 L:214 M:258 W: Mandatory Feature missing, <220> FEATURE: L:214 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:221 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22 L:223 M:258 W: Mandatory Feature missing, <220> FEATURE: L:223 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:230 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23 L:232 M:258 W: Mandatory Feature missing, <220> FEATURE: L:232 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:239 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24 L:241 M:258 W: Mandatory Feature missing, <220> FEATURE: L:241 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:248 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:25 L:250 M:258 W: Mandatory Feature missing, <220> FEATURE: L:250 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:257 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:26 L:259 M:258 W: Mandatory Feature missing, <220> FEATURE: L:259 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:266 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:27 L:268 M:258 W: Mandatory Feature missing, <220> FEATURE: L:268 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:275 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:28 L:277 M:258 W: Mandatory Feature missing, <220> FEATURE: L:277 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

L:284 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:29

L:293 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:30

L:286 M:258 W: Mandatory Feature missing, <220> FEATURE:

L:286 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: